

Applicant : Gino V. Segre et al.  
Serial No. : 09/199,874  
Filed : November 24, 1998  
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Attorney's Docket No.: 00786-071005 / MGH-0459.4  
Segre DIV3

### REMARKS

Upon entering this amendment, claims 40 to 43 and 52 to 71 will be pending in this application.

Claims 40 to 43 have been amended. These amendments are fully supported by the claims as filed, in particular claims 31 to 33. Therefore, these amendments add no new matter.

Claims 52 to 71 have been added. Support for such additional claims can be found throughout the specification. In particular, claims 58, 59, and 71 are based on claim 40. The various types of PTH receptors of claims 52 to 57 and 60 to 63 are described, for example, at page 8 of the specification. Claim 64 is based on claim 41, and claims 64 to 66 are supported, for example, at page 5, line 26, to page 6, line 11 of the specification. Claims 67 to 70 are supported at page 3, lines 25 to 27 of the specification. Thus, claims 52 to 71 add no new matter to the application.

Attached is a marked-up version of the changes being made by the current amendment.

Applicants submit that all of the claims are now in condition for allowance, which action is requested. Enclosed is a Petition for Extension of Time. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

In the claims:

Claims 40 to 43 have been amended as follows:

40. (Amended) A method for identifying a compound that competes [capable of competing] with a parathyroid hormone for binding to a parathyroid hormone receptor, the method comprising

(a) providing a polypeptide that: (i) comprises at least 6 amino acids and less than the complete amino acid sequence of a parathyroid hormone receptor, and (ii) binds to parathyroid hormone

(b) contacting the [a] polypeptide with a parathyroid hormone in the presence [or in the absence] of a candidate compound[, wherein the polypeptide comprises at least six amino acids and less than the complete amino acid sequence of a parathyroid hormone receptor, the polypeptide capable of binding parathyroid hormone]; and

(c) comparing the level of binding of the polypeptide to the parathyroid hormone in the presence of the candidate compound with the level of binding of the polypeptide to the parathyroid hormone in the absence of the candidate compound, wherein a lower level of binding in the presence of the candidate compound than in its absence indicates that the candidate compound [is capable of competing] competes with [the] parathyroid hormone for binding to the receptor.

41. (Amended) The method of claim 40, wherein the amino acid sequence of the polypeptide comprises part or all of [an amino acid sequence of] any one of SEQ ID NOs:5-13 [or a fragment of any one of SEQ ID NOs:5-13].

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42. (Amended) The method of claim 40, wherein the polypeptide is a fragment [comprises at least six amino acids and less than the complete amino acid sequence] of a naturally occurring parathyroid hormone receptor.

43. (Amended) The method of claim 40, wherein the polypeptide is a fragment [comprises at least six amino acids and less than the complete amino acid sequence] of a naturally occurring human parathyroid hormone receptor.